AMENDMENTS TO THE CLAIMS

Amend the claims as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently amended) A data communications system comprising a plurality of different networks coupled together by communication links, further comprising at least one multicast agent for coupling a multicast message transmission from a first network to a second network, said at least one multicast agent modifying the multicast message transmission from a ~~multicast~~ first network protocol of the first network to a ~~multicast~~ second network protocol of the second network, wherein the first network protocol is different from the second network protocol.

2. (Original) A data communications system as in claim 1, where said first network comprises an IP network, and where said second network comprises a non-IP network.

3. (Original) A data communications system as in claim 1, where said first network comprises a wireless IP network, and where said second network comprises a non-IP network.

4. (Original) A data communications system as in claim 1, where said first network comprises a wireless IP network, and where said second network comprises a wireless local area network (WLAN).

5. (Original) A data communications system as in claim 1, where said first network comprises a wireless IP network, and where said second network comprises a Bluetooth network.

6. (Original) A data communications system as in claim 1, further comprising at least one mobile host coupled to said second network for receiving the multicast message transmission from said multicast agent.

7. (Currently amended) A method to operate a data communications system comprising a plurality of different networks coupled together by communication links, comprising

initiating a multicast session from a multicast server coupled to a first network;

receiving a multicast message transmission from the multicast server with at least one multicast agent located in the first network; and

modifying with the at least one multicast agent the multicast message transmission from a ~~multicast~~ first network protocol of the first network to a ~~multicast~~ second network protocol of a second network, wherein the first network protocol is different from the second network protocol.

8. (Original) A method as in claim 7, where said first network comprises an IP network, and where said second network comprises a non-IP network.

9. (Original) A method as in claim 7, where said first network comprises a wireless IP network, and where said second network comprises a non-IP network.

10. (Original) A method as in claim 7, where said first network comprises a wireless IP network, and where said second network comprises a wireless local area network (WLAN).

11. (Original) A method as in claim 7, where said first network comprises a wireless IP network, and where said second network comprises a Bluetooth network.

12. (Original) A method as in claim 7, further comprising receiving the multicast message transmission from said multicast agent with at least one mobile host coupled to said second network.

13. (Currently amended) A method to simultaneously send a message to a plurality of mobile hosts through a plurality of different networks, comprising initiating a multicast session with the plurality of mobile hosts with a multicast server coupled to a first network; receiving a multicast message transmission for the plurality of mobile hosts with at least one multicast agent located in the first network; modifying with the at least

one multicast agent the multicast message transmission from a ~~multicast~~ <u>first network</u>

protocol of the first network to a ~~multicast~~ <u>second network</u> protocol of a second network;

and delivering the multicast message transmission, in the second multicast protocol, to

those mobile hosts that are wirelessly coupled to the second network<u>, wherein the first</u>

<u>network protocol is different from the second network protocol</u>.

14. (Original) A method as in claim 13, where said first network comprises an IP

network, and where said second network comprises a non-IP network.

15. (Original) A method as in claim 13, where said first network comprises a

wireless IP network, and where said second network comprises a non-IP network.

16. (Original) A method as in claim 13, where said first network comprises a

wireless IP network, and where said second network comprises a wireless local area

network (WLAN).

17. (Original) A method as in claim 13, where said first network comprises a

wireless IP network, and where said second network comprises a Bluetooth network.

18. (Original) A method as in claim 13, where there are a plurality of said second

networks coupled to said first network, each of said second networks comprising one of

said multicast agents.

19. (Currently amended) A method to simultaneously send a message from a server coupled to an end network, via at least one intermediate network, to a plurality of mobile devices coupled to the at least one intermediate network through a plurality of access networks, comprising setting up a multicast session between the server and the plurality of mobile devices via the end network, the at least one intermediate network, a the plurality of the access networks, and a plurality of agents coupled between the end network and the at least one intermediate network, and between the at least one intermediate network and the plurality of access networks; receiving a multicast transmission at an agent coupled between at least one access network and the at least one intermediate network; directing the multicast transmission only to [[an]] at least one access network or access networks where the agent has knowledge of at least one mobile device that is to receive the multicast transmission; where directing the multicast transmission includes modifying with the at least one agent the multicast transmission from a network protocol of the network that the multicast transmission was received from to a different network protocol of the network that the multicast transmission is to be directed to; and delivering the multicast transmission to the plurality of mobile devices, using a protocol appropriate for each access network to which the plurality of mobile devices are attached.

20. (Currently amended) A method as in claim 19, where at least one intermediate network comprises an IP network.

21. (Currently amended) A method as in claim 19, where at least one <u>intermediate</u> network comprises a non-IP network.

22. (Original) A method as in claim 19, where at least one access network comprises a wireless IP network.

23. (Original) A method as in claim 19, where at least one access network comprises a non-IP network.

24. (Original) A method as in claim 19, where at least one access network comprises a wireless local area network (WLAN).

25. (Original) A method as in claim 19, where at least one access network comprises a Bluetooth network.

26. (Currently amended) A method as in claim 19, where at least one access network comprises a ~~cdma~~ <u>code division multiple access (CDMA)</u> network.

27. (Currently amended) A method as in claim 19, where at least one access network comprises a low power <u>radio frequency (RF)</u> network.

28. (Original) A method as in claim 19, where at least one access network comprises one of a wired or a wireless access network.

29. (Original) A method as in claim 19, where at least one access network comprises an infra red optical network.

30. (Currently amended) A method as in claim 19, where there are a plurality of said access networks coupled to an intermediate network via a first agent, and where said intermediate network is coupled to said end network via a second agent, and where each agent records an identity of at <u>least one intermediate</u> network <s>or networks</s> coupled thereto having at least one mobile device that has enrolled to become part of the multicast session during the set up process, and where each agent directs a received multicast transmission only to a recorded <u>at least one intermediate network</u> <s>or networks</s>.

31. (Currently amended) A method as in claim 19, where messaging between networks is based on at <u>least one of Synchronization Markup Language Device Management (SyncML DM)</u> protocol, <u>Wireless Application Protocol (WAP)</u>, and <u>Extensible Markup Language (XML)</u><s>, or any messaging protocol supported between networks</s>.

32. (Currently amended) A system to simultaneously send a message from a server coupled to an end network, via at least one intermediate network, to a plurality of

mobile devices coupled to the at least one intermediate network through a plurality of access networks, comprising means for setting up a multicast session between the server and the plurality of mobile devices via the end network, the at least one intermediate network, [[a]] the plurality of the access networks, and a plurality of agents coupled between the end network and the at least one intermediate network, and between the at least one intermediate network and the plurality of access networks; at an agent coupled between at least one access network and the at least one intermediate network, a receiver for receiving a multicast transmission and a transmitter for directing the multicast transmission only to an access network or access networks where the agent has knowledge of at least one mobile device that is to receive the multicast transmission; said agent further comprising means for modifying with the at least one agent the multicast transmission from a network protocol of the network that the multicast transmission was received from to a different network protocol of the network that the multicast transmission is to be directed to for delivering the multicast transmission to the plurality of mobile devices, using a protocol appropriate for each access network to which the plurality of mobile devices are attached.

33. (Original) A system as in claim 32, where at least one network comprises an IP network.

34. (Original) A system as in claim 32, where at least one network comprises a non-IP network.

35. (Original) A system as in claim 32, where at least one access network comprises a wireless IP network.

36. (Original) A system as in claim 32, where at least one access network comprises a non-IP network.

37. (Original) A system as in claim 32, where at least one access network comprises a wireless local area network (WLAN).

38. (Original) A system as in claim 32, where at least one access network comprises a Bluetooth network.

39. (Currently amended) A system as in claim 32, where at least one access network comprises a <u>code division multiple access (CDMA)</u> ~~cdma~~ network.

40. (Currently amended) A system as in claim 32, where at least one access network comprises a low power <u>radio frequency (RF)</u> network.

41. (Original) A system as in claim 32, where at least one access network comprises one of a wired or a wireless access network.

42. (Original) A system as in claim 32, where at least one access network comprises an infra red optical network.

43. (Currently amended) A system as in claim 32, where messaging between networks is based on <u>at least one of</u> Synchronization Markup Language Device Management (SyncML DM) protocol, <u>Wireless Application Protocol (WAP), and Extensible Markup Language (XML)</u>, or any messaging protocol supported between networks.

44. (Original) A system as in claim 32, where there are a plurality of said access networks coupled to an intermediate network via a first agent, and where said intermediate network is coupled to said end network via a second agent, and where each agent comprises memory for storing an identity of a network or networks coupled thereto having at least one mobile device that has enrolled to become part of the multicast session during the set up process, and where each agent transmits a received multicast transmission only to a network or networks having its identity stored in said memory.

45. (Currently amended) A device, comprising:

a first interface for connection with a first network operating in accordance with a

first ~~multicast~~ <u>network</u> protocol;

a second interface for connection with a second network operating in accordance with a second ~~multicast~~ <u>network</u> protocol that differs from the first ~~multicast~~ <u>network</u> protocol; and

a multicast unit comprising a protocol converter to convert, during a multicast session being conducted with mobile devices, a multicast transmission received from the first network in the first ~~multicast~~ <u>network</u> protocol to a multicast transmission in the second ~~multicast~~ <u>network</u> protocol.

46. (Previously presented) A device as in claim 45, where the first multicast protocol comprises an internet protocol, and where the second multicast protocol comprises a non-internet protocol.

47. (Previously presented) A device as in claim 45, where the multicast transmission in the second multicast protocol is sent only to an access network or access networks where the device has knowledge of at least one mobile device that is to receive the multicast transmission.

48. (Previously presented) A device as in claim 45, where the multicast transmission is comprised of a software update.